

ABSTRACT

A receiving device exhibits a high communication quality even if having a small time complexity and a small space complexity. The receiving device includes an interference event detecting means for detecting that a predetermined interference event to interfere with using of the encoded element periodic signals packed in the transmission unit signal for the reproduction output occurs in any of the transmission unit signals received in a time series during transmission via the transmission path; and interpolation means of the number of the logic channels, each of which produces an alternative element periodic signal on the basis of a predetermined period and interpolates the alternative element periodic signal into a series of element periodic signals when the interference event detecting means detects occurrence of the interference event, the alternative element periodic signal being to become alternative to the encoded element periodic signal packed in the transmission unit signal. Each of the plurality of interpolation means provided for the respective logic channels includes an element periodic signal storing section for storing the element periodic signal of the decoding result of the encoded element periodic signal extracted from the transmission unit signal received by each corresponding logic channel. Any one of the plurality of interpolation means provided for the respective logic channels includes: a period calculating section for calculating a value of the period, which is information to become a base for producing the alternative element periodic signal and is common to the respective element periodic signals obtained by dividing the same original periodic signal, from the element periodic signal stored in the element periodic signal

storing section; and a period notifying section for giving a notice of the value of the calculated period to other interpolation means.